

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

50. (Previously Presented) A process for forming a pattern on a substrate by deposition of an organic material comprising the steps of:

depositing a semiconducting organic material in a solvent onto a substrate by ink-jet printing; and

evaporating the solvent, whereby said organic material remains on the substrate.

51. (Previously Presented) The process of claim 50, further comprising drying the deposited material to remove said solvent.

52. (Previously Presented) The process of claim 50 wherein said organic material is a luminescent polymer.

55. (Previously Presented) The process of claim 50 wherein said material includes light emitting dyes.

60. (Previously Presented) The process of claim 50 wherein said organic material is polymer based.

61. (Previously Presented) A process for making organic light emitting diodes comprising the steps of:

depositing a semiconducting organic material in a solvent onto a substrate by ink-jet printing; and

evaporating the solvent, said organic material remaining on the substrate.

62. (Previously Presented) The process of claim 61 wherein said depositing step operates an ink-jet printer in a mode to create a continuous sheet of polymer.

63. (Previously Presented) The process of claim 62 further including the step of metallizing said ink-jet printed substrates.

64. (Previously Presented) The process of claim 63 further including the step of depositing a top metal contact on said substrate.

67. (Previously Presented) The process of claim 64 wherein said top metal contact is deposited in a pattern.

69. (Previously Presented) The process of claim 61 further wherein said organic material includes light emitting dyes.

70. (Previously Presented) The process of claim 69 further including the step of depositing a top contact on said organic material.

101. (Previously Presented) The process of claim 62 further including the step of metallizing said ink-jet printed organic material.

102. (New) A process for forming a pattern on a substrate by deposition of an organic material comprising the steps of:

depositing a semiconducting organic material in a solvent onto a substrate by ink-jet printing to form the pattern; and

evaporating the solvent, whereby said organic material remains on the substrate.